

Surface Mount Aluminum Electrolytic Capacitors NACEN Series

FEATURES

- CYLINDRICAL V-CHIP CONSTRUCTION FOR SURFACE MOUNTING
- NON-POLARIZED, 2000 HOURS AT 85°C
- 5.5mm HEIGHT
- ANTI-SOLVENT (2 MINUTES)
- DESIGNED FOR REFLOW SOLDERING

**RoHS
Compliant**

includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Rated Voltage Rating	6.3 ~ 50Vdc					
Rated Capacitance Range	0.1 ~ 47μF					
Operating Temperature Range	-40° ~ +85°C					
Capacitance Tolerance	±20%(M), ±10%(K)*					
Max. Leakage Current After 1 Minutes at 20°C	0.03CV +6μA maximum					
Max. Tanδ @ 120Hz/20°C	W.V. (Vdc)					
	6.3	10	16	25	35	50
Low Temperature Stability (Impedance Ratio @ 120Hz)	Tanδ @ 120Hz/20°C					
	0.24	0.20	0.17	0.17	0.15	0.15
	W.V. (Vdc)					
Load Life Test at Rated W.V. 85°C 2,000 Hours (Reverse polarity every 500 hours)	Z-40°C/Z +20°C					
	4	3	2	2	2	2
Capacitance Change	Z-40°C/Z +20°C					
	8	8	4	4	3	3
	Within ±25% of initial measured value					
Tanδ						Less than 200% of specified value
Leakage Current						Less than specified value

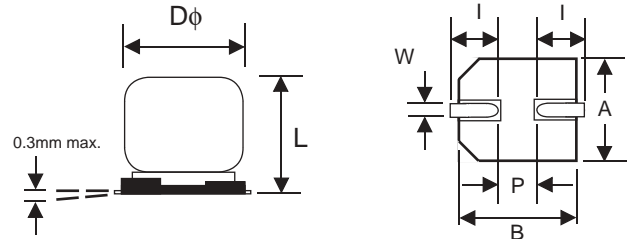
STANDARD PRODUCT AND CASE SIZE TABLE DXL (mm)

Cap. (μF)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
0.1	R10	-	-	-	-	-	4x5.5
0.22	R22	-	-	-	-	-	4x5.5
0.33	R33	-	-	-	-	-	4x5.5*
0.47	R47	-	-	-	-	-	4x5.5
1.0	1R0	-	-	-	-	-	4x5.5*
2.2	2R2	-	-	-	-	4x5.5*	5x5.5*
3.3	3R3	-	-	-	4x5.5*	5x5.5*	5x5.5*
4.7	4R7	-	-	4x5.5	5x5.5*	5x5.5*	6.3x5.5
10	100	-	4x5.5*	5x5.5*	6.3x5.5*	6.3x5.5*	6.3x5.5*
22	220	5x5.5*	6.3x5.5*	6.3x5.5*	-	-	-
33	330	6.3x5.5*	6.3x5.5*	6.3x5.5*	-	-	-
47	470	6.3x5.5*	-	-	-	-	-

*Denotes values available in optional 10% tolerance

DIMENSIONS (mm)

Case Size	Dφ±0.5	L max.	A/B±0.2	I ± 0.2	W	P±0.2
4x5.5	4.0	5.5	4.3	1.8	0.5 ~ 0.8	1.0
5x5.5	5.0	5.5	5.3	2.1	0.5 ~ 0.8	1.4
6.3x5.5	6.3	5.5	6.6	2.5	0.5 ~ 0.8	2.2



PRECAUTIONS

Please review the notes on correct use, safety and precautions found on pages T10 & T11 of NIC's Electrolytic Capacitor catalog.
Also found at www.niccomp.com/precautions
If in doubt or uncertainty, please review your specific application - process details with NIC's technical support personnel: tpmg@niccomp.com



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STANDARD VALUES, CASE SIZES AND SPECIFICATIONS

NIC Part Number	Cap. (μF)	W.V. (Vdc)	Dissipation Factor (Tan δ)	Max. Ripple Current (mA) +85°C/120Hz	Load Life Hours @ +85°C
NACEN220M6.3V5X5.5TR13F	22	6.3	0.24	31	2,000
NACEN330M6.3V5X5.5TR13F	33		0.24	39	2,000
NACEN470M6.3V5X5.5TR13F	47		0.24	47	2,000
NACEN100M10V4X5.5TR13F	10	10	0.20	17	2,000
NACEN220M10V6.3X5.5TR13F	22		0.20	35	2,000
NACEN330M10V6.3X5.5TR13F	33		0.20	43	2,000
NACEN4R7M16V4X5.5TR13F	4.7	16	0.17	12	2,000
NACEN100M16V5X5.5TR13F	10		0.17	25	2,000
NACEN220M16V6.3X5.5TR13F	22		0.17	39	2,000
NACEN330M16V6.3X5.5TR13F	33		0.17	57	2,000
NACEN3R3M25V4X5.5TR13F	3.3	25	0.17	10	2,000
NACEN4R7M25V5X5.5TR13F	4.7		0.17	19	2,000
NACEN100M25V6.3X5.5TR13F	10		0.17	28	2,000
NACEN2R2M35V4X5.5TR13F	2.2	35	0.15	8.4	2,000
NACEN3R3M35V5X5.5TR13F	3.3		0.15	17	2,000
NACEN4R7M35V6.3X5.5TR13F	4.7		0.15	20	2,000
NACEN100M35V6.3X5.5TR13F	10		0.15	30	2,000
NACENR10M50V4X5.5TR13F	0.1	50	0.15	1.0	2,000
NACENR22M50V4X5.5TR13F	0.22		0.15	2.3	2,000
NACENR33M50V4X5.5TR13F	0.33		0.15	3.5	2,000
NACENR47M50V4X5.5TR13F	0.47		0.15	5.0	2,000
NACEN1R0M50V4X5.5TR13F	1.0		0.15	10	2,000
NACEN2R2M50V4X5.5TR13F	2.2		0.15	15	2,000
NACEN3R3M50V5X5.5TR13F	3.3		0.15	18	2,000
NACEN4R7M50V6.3X5.5TR13F	4.7		0.15	23	2,000
NACEN100M50V6.3X5.5TR13F	10		0.15	23	2,000

PART NUMBER SYSTEM

